total control®

Owner's Manual

TRF-UZ1

Z Extender

URC™

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TRF-UZ1 Z Extender Owner's Manual © 2012 - 2014 Universal Remote Control, Inc.

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Congratulations!

Thank you for purchasing the Total Control TRF-UZ1 Z Extender for use with an MRX Advanced Network System Controller. This device allows for optimal placement of the system's RF antenna, allowing for more robust coverage in all corners of the home or small office space. Designed to work on URC's 2.4GHz wireless network, this compact device works with other devices that use the same network protocol, like the MRX-10 Controller, TRC-780 Remote and the THZ-100 Thermostat.

Features and Benefits

- **Replaces the internal antenna on the MRX-10 to allow for optimal placement and communication, through the wired network, between devices operating on URC's 2.4GHz network.**
  Using the optional TRF-UZ1 Z disables the internal antenna on the MRX-10 and uses its own internal antenna as the new "point of origin" for the RF signal. This feature provides an abundance of placement options, minimizes the need for ZR series repeaters, and ensures a robust signal to auxiliary devices.

- **Adds a 2.4GHz network antenna to the MRX-20 Advanced Network System Controller**
  Without an included 2.4GHz antenna, the MRX-20 requires the use of the TRF-UZ1 Z to enable communication, over the 2.4GHz network, to compatible devices (TRC-780, THZ-100, etc.). Using this external antenna allows for optimal placement in the home or small office space.

- **Compact design for easy installation**
  Easily and discretely install the TRF-GE1 Extender. Maintain your home decor while controlling your Total Control MRX Advanced Network System Controller.

Parts Guide

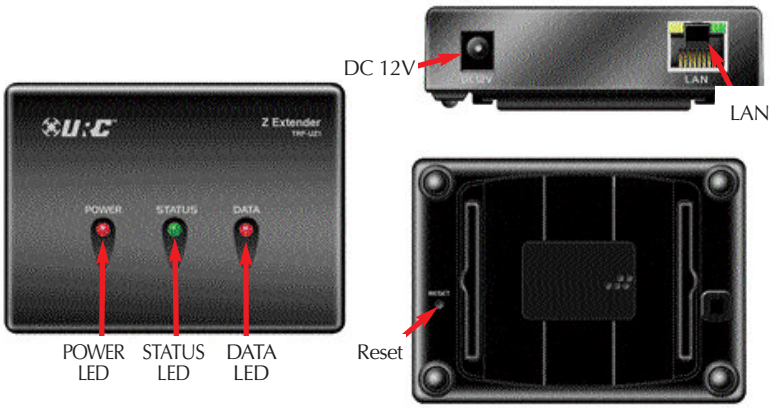
The TRF-UZ1 Z Extender includes:

1 - TRF-UZ1 Z Extender

1 - Owner's Manual

TRF-UZ1 Panel Descriptions

The front, rear and bottom panel consists of:



Power LED: When illuminated this light indicates the TRF-UZ1 is ON.

Status LED: The **Status LED** signifies when the TRF-UZ1 is connected to the network:

- **Connected:** Illuminates **green**.
- **Not Connected:** Remains OFF.
- **Pairing:** Illuminates **orange.**

Data LED: The **Data LED** flashes as the TRF-UZ1 receives and transmits data.

DC 12V (1A): Plug in the included AC/DC adapter to power up the TRF-UZ1.

LAN: Communicate over the network to an MRX-10/20 using an Ethernet cable.

Reset: Pressing the **Reset** button, with a stylus or paper clip, refreshes the TRF-UZ1. Unplugging and re-plugging the power cable also resets the unit.

Pressing and holding the **Reset** button for 10 seconds, factory defaults the TRF-UZ1 and places the unit back to its original factory condition.

Specifications

Microprocessor: ARM32-bit Cortex- M3(120MHz)

Power Supply: 12V DC 1A

RAM: 128Mbyte Mobile DDR

RF Range(radio frequency): 50 to 100 feet, depending upon the environment

RF Freqency: 2.405~2.480 GHz

NAND: 128Mbyte

FLASH: 768Kbytes

SRAM: 128 + 4 Kbyte

Weight: 3.058 oz

Size: 3.74″ X 2.7″ X 1.1″

Power: 12V DC 1A

Limited Warranty Statement

1. Limited Warranty and Disclaimers
Universal Remote Control, Inc. ("URC") warrants that the URC equipment shall be free from defects in material and workmanship under normal usage for two (2) years from purchase when such is purchased from URC. **This limited warranty is valid only in the United States of America.** URC warrants that the software will substantially conform in any material respect to its functional specifications at the time of delivery. URC SHALL NOT BE LIABLE FOR OPERATIONAL, TECHNICAL OR EDITORIAL ERRORS AND/OR OMISSIONS MADE IN THE URC DOCUMENTATION. URC DOES NOT WARRANT THAT THE URC SOFTWARE IS BUG-FREE OR ERROR FREE OR THAT THERE ARE NO ERRORS/BUGS IN THE URC SOFTWARE.

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The warranty limitations and warranty disclaimers may not apply to end user in whole or in part, where such are restricted or excluded by applicable law and such shall apply to the maximum extent permitted by applicable law.

In the event of any warranty claim, URC will, at its sole option, repair the URC equipment using new or comparable rebuilt parts, or exchange the URC equipment for new or rebuilt equipment. **In the event of a defect, these are the end user's exclusive remedies.**

All the URC equipment returned for service, exchange or repair require an RGA number. To obtain an RGA number, you must complete a Return Request Form which you may obtain by calling (914) 835-4484 or contacting URC at returnrequest@universalremote.com. To obtain warranty service, end user must deliver the URC equipment, freight prepaid, in its original packaging or packaging affording adequate protection to URC at 420 Columbus Avenue, Valhalla, NY 10595. It is the end user's responsibility to backup any macro programming, artwork, software or other materials that may have been programmed into the unit. It is likely that such data, software, or other materials will be lost during service and URC will not be responsible for any such damage or loss. A dated purchase receipt, bill of sale, installation contract or other verifiable proof of purchase is required. For the URC equipment support and other important information, please visit URC's website available at www.universalremote.com or call the Customer Service Center at (914) 835-4484.

This limited warranty only covers the URC equipment issues caused by defects in material or workmanship during ordinary consumer use. It does not cover product issues caused by any other reason, including but not limited to product issues due to commercial use, acts of God, third-party installation, misuse, limitations of technology, or modification of or to any part of the URC equipment. This limited warranty does not cover the URC equipment sold as used, as is, refurbished, so called "B stock" or consumables (such as batteries). This limited warranty is invalid if the factory applied serial number has been altered or removed from the URC equipment. **This limited warranty specifically excludes the URC equipment sold by unauthorized resellers.**

With the exception of URC's IR-only, broad-based consumer remotes, none of

URC's PC programmable remotes or any of our Total Control® whole-house equipment are authorized for online internet sales. Buying URC's PC programmable remotes or any of our Total Control® whole-house equipment online means buying equipment that does not have a URC's limited warranty. Such equipment is not eligible for URC tech support or software support, either.

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IN NO EVENT SHALL URC BE LIABLE FOR ANY EVENTS BEYOND ITS CONTROL, INCLUDING ANY INSTANCE OF FORCE MAJEURE.
IN NO EVENT SHALL URC BE LIABLE FOR THE ACTS OR OMISSIONS OF END USER OR ANY THIRD PARTY.

THE LIMITATIONS OF LIABILITY MAY NOT APPLY TO END USER IN WHOLE OR IN PART, WHERE SUCH ARE RESTRICTED LIMITED OR EXCLUDED BY APPLICABLE LAW AND SUCH SHALL APPLY TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW.

URC SHALL NOT BE HELD RESPONSIBLE FOR THE STATEMENTS MADE BY OTHERS.

SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO END USER. THIS LIMITED WARRANTY GIVES END USER SPECIFIC LEGAL RIGHTS AND END USER MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR JURISDICTION TO JURISDICTION.

End User Agreement

The terms and conditions of the End User Agreement available at www.universalremote.com/eua.php shall apply.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for aClass B digital device, pursuant to part 15 of the FCC Rules. These limits aredesigned to provide reasonable protection against harmful interference in aresidential installation. This equipment generates, uses and can radiate radiofrequency energy and, if not installed and used in accordance with the instructions,may cause harmful interference to radio communications. However, there isno guarantee that interference will not occur in a particular installation. If thisequipment does cause harmful interference to radio or television reception,which can be determined by turning the equipment off and on, the user isencouraged to try to correct the interference by one more of the followingmeasures:

- ◆ Reorient or relocate the receiving antenna.
- ◆ Increase the separation between the equipment and receiver.
- ◆ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ◆ Consult the dealer or an experienced radio/TV technician for help.

Warning!

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.
Note : The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC Caution

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

Regulatory Information to the user

■ CE conformity Notice

Products with "CE" marking comply with the R&TTE Directive 1995/5/EC, EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EEC issued by the commission of the European Community.

1) R&TTE Directive
- ●Safety : EN 60950-1
- ●EMC : ETSI EN 301 489-1,3
- ●RF : ETSI EN 300 220-1,2
  : ETSI EN 300

2) EMC Directive
- ●Emission : EN 55022
- ●Immunity : EN 55024
- ●Power : EN-61000-3-2, 3

■ Declaration of Conformity

"Hereby, Universal Remote Control Inc. declares that this TRF-UZ1 is in compliance with the Essential requirements and other relevant provisions of Directive 1999/5/EC."

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Certification	CE 2200
Type No.(Model No.)	TRF-UZ1
Batch/Serial No.	-
Power Rating	12V DC 1A
Frequency band	2.405~2.480 GHz

Declaration of Conformity

Company Name	:	Universal Remote Control Inc.
Company Address	:	500 Mamaroneck Avenue, Harrison, NY 10528, U.S.A
Contact Information	:	www.universalremote.com Phone: (914)835-4484 Fax: (914)835-4532
Brand Name	:	UNIVERSAL remote control
Product Name	:	BASE STATION
Model Name	:	TRF-UZ1

This product herewith complies with the requirements of EMC Directive (2004/108/EC) and R&TTE Directive(1995/5/EC) issued by the Commission of the European Community

Compliance with these directives implies conformity to the following European Community

- EMC Directive
  - EN 55022
  - EN 55024
  - EN 61000-3-2
  - EN 61000-3-3
- R&TTE Directive
  - EN 60950-1
  - ETSI EN 301-489-1,3
  - ETSI EN 300 220-1,2
  - ETSI EN 300

List of test reports and/or certificate verified compliance with the standards above

- EMC Directive
  - Report No.
  - Testing Laboratory : Gumi College EMC Center
- R&TTE Directive
  - Certificate No.
  - Certificate Body : SIEMIC (No. 2200)

Date of issue : March 16, 2012

Name and signature of authorized person : James Novak

Senior Product Manager
Universal Remote Control Inc.

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